# DESCRIPTIONS OF ICHNEUMONIDE，CHIEFLY FROM THE PACIFIC SLOPE OF THE UNITED STATES AND BRITISH NORTH AMERICA．＇ 

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Ichneumon solitus，Cresson（Trans．Am．Ent．Soc．，vi．144）．
Q．－Black．immaculate；mesothorax，sentellum and abubucn shining，the latter rather strongly tinged with blae or frable ； antenna rather stont，strongly involnte，with a pale ammalns be－ yond middle；third joint more than twice longer than hroad，and conspicnonsly longer than the lourth；scutellum flat，polislact， and neaty destitute of punctures；metathor：ax hoatly and decply excarated behind，central area large pentangular：rounded later－ ally and emarginate posteriorly ；wings miformly pale fuliginons； femora rohust，anterior tihis pale in front；posterior coxe nude； abdomen oblong ovate，finely，closely，and evenly junctured． apex polished；apex of first segment broadly dilated and punc－ tured；gastroceli small and reep．Length ． $30-.42$ inch．

Hab．Lake Lahacle，lB．Col．（Crotch）；Colorado（Smith）．
Ichneumon odiosus，Cresson（Trans．Am．Ent．Soc．，vi．145）．
§．－Black；anterior orbits，dilated on sides of face，sloort line in front of tegulx，dot bencath，and tips of anterior femora and the four anterior tibix in front，white；scutellum convex，punc－ tured ；metathorax with strongly defined elevated lines，central area rather large，subreniform；wings fantly dusky，nervures and stigma black；legs slender；abdomen slightly tinged with blue， closely and strongly punctured，strongly constricted at hase of segments three and four ；apex of first segment moderately broad， raised medially and punctured；gastroceli small and deep． Length ． 56 inch．

## Hab．Calitormia（Beluens）．

${ }^{1}$ In the early part of the year 1876 this paper was presented to the Cali－ fornia A cademy of Natural Sciences for publication in its Proceedings，and aecepted with the assurance that it would be published in the rolume for that year ；with this understanding，the species of Ichneumon，IIoplismenur， Amblyteles，Trogus，and Platylubus herein described，were referred to in my paper on the Subfamily Ichnenmonides（Trans．Am．Ent．Soc．，vi．p． 129 ），as published in the Proc．Cal．Acad．Nat．Sci．， 1877 ；but after a delay of over a year，the Academy finding it impossible to publish the paper in any reasonable time，the same was withdrawn．

Ichneumon neutralis, Cresson (Trans. Am. Ent. Soc., ri. 149).
§.-Black; anterior orbits, hroad on face, lower posterior orlits, dot on each side of clypens. spot at base of mandihles, palpi, line before tegulx, short one beneath, dot on tegulæ anteriorly, scutellum, anterior femora in front, four anterior tibise in firont and intermediate knees, all white; scutellmm subconvex, sparsely punctured; metathorax transversely rugose, posterior face oblique, bounded above by a sharp carina, central area of moderate size, romded anteriorly, and truncate posteriorly; wings smoky hyaline, nervures and stigma black; legs moderately slender ; abdomen faintly tinged with blue, closely punctured, somewhat, shining ; apex of first segment not broadly dilated: gastroceli deep. Length . 56 inclı.

Hab. California (H. Edwards). Closely allich to subcyanens, but is distinguished from that species by the posterior legs being entirely black.

Ichneumon salvus, Cresson (Trans. Anı. Ent. Soc., vi. 166).
§.-Black; face, clypeus, mandibles, palpi, scape beneath, upper margins of prothorax, tegule, short line heneath, seutellum and post scutellum, yellow; mesothorax with two longitudinal, dull, ferruginous lines dilated anteriorly; scutellum convex, polished, very abrupt at sides; metathorax entirely black, obliquely truncate behind, with large transversely quadrate central area; wings pale yellowish hyaline, stigma fulvous; legs yellowish, femora ferruginous, with coxæ more or less black abore, tips of posterior tibixe dusky; abdomen opaque, densely punctured, apex of first segment, and the second and third entirely, except narrow black posterior margin, yellow ; fourth segment ferruginous, black at tip, remainder black; apex of first segment broad, coarsely longitudinally rugose and pyramidal in profile; gastrocæli very large and deep; apical segments almost smooth, and shining; venter black, segments $2-4$ yellowish fermginons. Length . 66 inch.

Hab. V'ancouver's Island (H. Edwards).
Ichneumon indemnis, Cresson (Trans. Am. Ent. Soc., vi. 172).
ㅇ.Long, cylindrical, ferruginous; suture at base of antemne, mifdle of rertex, spot inclosing ocelli, apex of antennæ, sutures of thorax more or less, tips of posterior femora and of the tibje, apex of second, third. and fourth abdominal segments and the
fifth and following segments entirely, black; leat rather marow. huccate; antemax slencer, thiod joint long amd eylimhrical, ats long as first and second together, and nearly twice as long as the fourth; scotelhom convex, yellow; metathorax truncate behind, central area large amd oblong subpuadrate; wings smoky hyalme; leiss stender; aldomen long, narrow, linear, subcompressed at tip; first segment sulpquadrate at tip, slightly marowed to hase of second segment, so that the sides we somewhat rombled, lateral margins depressed, the raised middle being intistinctly acionlated ; hase of second segment narrowed, depressed, faintly longiturlually seulptured; gastroceli subobsolete; last ventral sugment long, narrow, not retracted. Length . 42 inch.

Hab. British Columhia (Croteh).
Ichneumon purpuripennis, Cresson (Trans. Am. Ent. Soc., ri. 175).
P.-Ferriginous; head buccate; antenne robust, with short, stont joints, back, the basal joints generally ferruginons. sometimes entirely black, apex more or less involute; seutellum flat, shiming, sparsely punctured; metathorax opaque, fincly rugosely sunctured, rather deeply excavated behind, cential area subquarlrate; wings fuscons, with a more or less strong violaceons reflection, stigmat varies from hack to fulvous; legs subrobnst, posterior tarsi sometimes fuscous; abdomen broadly fusiform, finely and elosely punctured, becoming gradually less distinct beyond third segment ; apex of first segment broadly dilated and longitudinally aciculated; gastroceli small and rather deep; basal margin of third or fomth segment, or hoth, sometimes narrowly black. Length . 50 inch.

Hab. Califormia (Behrens, H. Edwards, Stretch).
Ichneumon curitus, Cresson (Trans. Am. Ent. Soc., vi. 175).
§.-Ferruginous; antenme except scape, sometimes occiput and middle of vertex, and sutures of thorax more or less black; face, scutellum and anterior legs in frout pale ferroginous or yellowish; scutellum subconvex. shining, and sparsely punctured; central area of metathorax qualrate; wings fuliginons, violaceons ; abdomen opaque, closely and finely punctured ; apex of first segment rather narrow, shining, minutely aciculated; gastroceli large and deep. Length . 60 inch.

Hab. California (Behrens). May be the $b$ of purpuripenmis.

Ichneumon crudosus, Cresson (Trans. Am. Ent. Soc., vi. 175).
§.-Head, antemæ, and thorax black; face yellow ; mandihles, palpi, upper anterior orbits, scape, mesothorax except central black stripe, scutellum, metathorax above each side of central area and tegulæ ferruginous; scutellum convex, polished ; central area of metathorax small, subrotund; wings violaceons black; legs and abdomen entirely ferruginous, the latter narrow, opaque, densely and finely punctured ; apex of firs segment marrow, aciculated; gastroceli large and deep. Length . 70 inch.

Hab. California (H. Ellwards).
Ichneumon compar, Cresson (Trans. Am. Ent. Soc., vi. 175).
P.-Ferruginous; head strongly buccate, anterior orbits and palpi yellowish; antenne with short stout joints, apex black; collar yellow abore; scutellum flat, shining, sparsely punctured; metathorax strongly punctured, posterior face deeply excavater, bounded above by a sharp carima, central area quadrate; sutures of thorax sometimes more or less broadly margined with black, in one specimen the pleura beneath is almost entirely black; wings yellowish fuscons, stigma honey-yellow; femora robust, sometimes the posterior tibiæ is more or less yellowish at base, and the anterior legs tinged with yellow in front; abdomen fusiform, very clusely and finely punctured, smooth at apex; apex of first segment broadly dilated and longitudinally aciculated; gastrocæli rather large and deep. Length . 55 inch.

Hab. Tancourer's Island (H. Edwards). Closely allied to purpuripennis, which has stouter antennæ, with shorter basal joints, etc.

Ichneumon difficilis, Cresson (Trans. Am. Ent. Soc., vi. 176).
§.-Head black, upper anterior orbits, face, clypens, mandibles, except tips, palpi, and scape beneath yellow ; thorax black, upper margin of prothorax, large furcate mark on mesothorax, scutellum, and metathorax above more or less ferruginous; tegula, short line beneath and sometimes the scutellum, yellow; scutellum subconvex, polished; wings fuscous, stigma fulvous; legs ferruginous, coxe and tips of posterior tibie black; abdomen ferrnginous, deusely punctured, opaque, base of segments three, four, and five, more or less black: apex of first segment coarsely aciculated; gastroceli large and very deep. Length .56 inch. ,

Hab. California (Behrens).

Par.? I'ale fermomons; thorax same as the above, with the scutellum yellow ; forr anterior corte yrllow : : pex of firs abolominal segment nearly smooth, scarcely aciculated; black hands at hase of segments 3 - 5 narow.

Mab. Vancourer's Island (1I. Edwards.
Ichneumon nuncius, Cresson (Trans. Am. Ent. Soc., vi. 176).
§. Bhack; face, anterior orlits. lower posterior obbits. clyperis. mandibles except tips, seape beneath, upper margin of protionax, tegula, shert line beneath, scutellum, post-scutellum, and posterior face of metathorax more or less pale yellow; mesothorax with two pale lines or a spot on the disk; scutellum conver: polished; elevated lines of metathorax sharply definerl, posterior face obliquely truncate, central area quadrate; wings hyaline, dusky at tips, stigma fulvous; legs ferruginons, fonr anterior coxx and trochanters yellow, their femora, tilise, and tarsi yellowish in frout; posterior coxa, trochinters and tips of theil tibite black; apex of their cose heneath, and tips of their tarsi yellowish; abdomen ferruginous, first segment back, with the spex ferriginous, acieulated; gastroceli rather large and moderately deep. Length . 55 inch.

Mab. Califormia (H. Edwards).
Ichneumon sequax, Cresson (Trans. Am. Ent. Soc., vi. 1S1).
으․-Ferruginous, shining, finely, rather feebly punctured; anterior orbits pale; antenne long, slender, black. sceipe ferruginons, third joint long, cylindrical, longer than fourth, apex of flagellum attenuated ; scutellum broad, Hattened, broadly truncate at tip, the lateral region, basal exeavation and carine, plema except lateral spot, sides of prothoras more or less, and base and flanks of metathorax black; metathorax truncate behincl, lateral angles prominent. central area large, quadrate; wings hyaline, fantly dusky, stigma hack; legs slender, entirely ferruginous; abdomen broadly fusiform, (lepressed. polished at tip) : apex of first segment broad, and tinely aciculated; gastroceli oblique and decp. Length 50 inch.

Hab. Vancouver's Island (H. Edwards).
Ichneumon hiemalis, Cresson (Trans. Am. Ent. Soc., vi. 181).
ㅇ.-Small, densely seuptured, feruginons, space hehind antemme, apex of flagellum, plemra and metathorax black; anteme vellowish-ferruginous, rather long. slightly thickened to wards tip,
joints short, third about twice longer than broad and sulnequal with fourth; scutellum flattened; metathorax obliquely truncate hehind, central area quadrate; wings clusky, stigma yellow; legs slencler, four posterior coxæ black, ferruginous at tips; abdomen fusiform, clepressed, densely coarsely sculptured, smooth and shining at apex; first segment rather broadly dilated at tip, and coarsely longitudinally seulptured, gastrocrli obliquely linear. Length . 30 inch.

Hab. Aleutian Islands (H. Edwards).
Ichneumon cestus, Cresson (Trans. Am. Ent. Soc., vi. 182).
ㅇ.-Pale ferruginous, opaque, densely and finely punctured; antema slender, third joint long, cylindrical, much longer than fourth, apical joints blackish; anterior angle of prothorax, basal excavation of scutellum, basal suture of metathorax, irregular pateh on disk of second abdominal segment and broad band at base of third segment, black; scutellum depressed, polished, punctured, sides abrupt, apex romded; metathorax coarsely punctured. excavated behind, with spiniform lateral angles, central areat quadrate, not well defined; wings yellowish hyaline, a fuscons clond along lase of first submarginal cell, stigma fulvous; tips of posterior tibize slightly dusky, their coxe bencath with a small pubescent patch near tip; abdomen fusiform. apex of first segment broad and finely seabrous; gastrocreli transsersely linear, rather deep. Length 40 ineh.

Hab. Tanconver's Island (H. Erlwards). Easily recognized by the broad black band at base of third abdominal segment, and by the subfasciate wings.

Ichneumon russatus, Cresson (Trans. Am. Ent. Soc, vi. 183).
P.-Ferruginous; head and mesothorax sparsely punctured; head buccate, middle of face prominent; antemme short. robnst, strongly involute, scape subglobose, third joint nearly subquatrate, and equal with fourth, the joints towards apex thickened, ohfuscated; seutellum flat, polisherl, with a few scattered punctures; metathorax deeply excavated behind, with rather prominent subspiniform lateral angles, central area subquadrate; sutures of prothorax beneath, suture at base of scutellom, as well as its lateral region, and lower margin of metathorax, black; wings fus-co-lyaline; abdomen fusiform, very densely and minutely sculptured on second and third segments, apical segments smooth and
shining; : apex of first segment ergulually diated, rather coarsely acioulated, depmessed. mot at all raised mulially; sastrocedi subobsolete; a finserns stain on second sexgent (which may be aceidental). Length .f0 inch.

Huh). Vanconver's lshan (H. Edwatis).
Ichneumon semissis, Cresson (Trans. Am. Eint. Soc., vi. 183).
S.-Fermginons, opaque; head hroad, sub-buceate; antennar moderately slender, dusky at tips, thited joint more than twiee longer than broarl, and a little longer than fourth; anterior angle of mesothorax and hasal and lateral regions of scutellum back; scutellun subeonvex. shining, rounded at tip; metathorax roughly punctured, rather deeply excarated behind, with prominent ohtuse lateral angles, central area quadrate; wings pale yellowish-fuscous; aludomen fusiform, rather strongly punctured on second segment, apical segments gradually smoother and shining; apex of first segment gradually, rather broully ditated and feebly aciculated; gastrocali shallow, not well marked. Length . 40 inch.

Hab. Mohave I)esert, California (Crotelb).
Ichneumon petulcus, Cresson ( [rans. Am. Ent. Soc., vi. 185).
ㅇ.-Small, robust, fermginous, shining; head strong! y hreeate, face short and prominent on middle, polished ; antenne short, rohust. with short close-set joints, seape glohose; thirl joint nearly quadrate, equal with third, flagellum obfuseated; front hehind antemme deeply excavated, oceiput deeply emarginate; mesothorax subtrilobate; scutellum flat, polished; metathorax deeply exeavated behind, lateral angles rather prominent, central area subquadrate; lateral region of scutellum, spot on sides of prothorax, anterior margin of plenra and lower margin of metathorax, hack; wings hyaline, fantly tinged with yellowish; legs robust; abdomen fusiform, finely punctured, shining at apex; first segment gradually dilated at tip and depressed, indistinctly sculptured; gastrocæli obsolete. Length . 26 inch.

Ilab. San Barbara, Califormia (Croteh),
Hoplismenus pacificus, Cresson (Trans. Am. Ent. Soc., vi. 186).
¢.-black, opaque; mandibles and palpi brownish; clypens sometimes more or less fermginons; antemas slender, with a yel-lowish-white annulus, scape ferruginous beneath; sentellum strongly gibhons, convex, or subpyramidah, shining; metathorax coarsely, transpersely rugose, smoother on each side at base, trum-
eate behind, lateral angles very prominent, oltuse, central area quadrate, sometimes longitudinally rugose ; wings uniformly fuliginous, with a strong violaceous reflection, nervures and stigma hack; legs, with coxe, fermginons, sometimes brownish-fermginous, posterior tilia fuscous, the base often more or less ferruginous, their tarsi whitish with hasal joint almost entirely fuscons; abdomen hroad, ovate, depressed, shining at tip, second aud third segments elosely and strongly punctured, the punctures confluent at base of second, gastroceli large and deep; apex of first segment broad, scabrous; venter shining. Length . 70 inch.
5.-More slender: sides of face yellow; clypens, labrum, and scape beneath ferruginous, flagellum entirely black; legs pale ferruginons. Lengtin . 55 inclı.

Hab. Vancouver's Island (H. Edwards).
Amblyteles mormonus, Cresson (Trans. Am. Ent. Soc., vi. 190).
ㅇ.-Deep hack; four anterior legs, except coxæ and trochanters, and posterior femora fermginous; antenne long, slenter, hasal joints of flagellum•long and eylindrical; head small, cheeks flat; thorax robust, strongly punctured ; scutellmm depressed; metathorax obliquely truncate behind, central area transverse; tegule fuseous; wings fuscous, rather paler at tips; legs subrobust, posterior tibize and tarsi unusually robust, the latter short; abdomen broadly fusiform, opaque at base, shining at tip, apex of first segment broad, aciculated ; second and third segments closely and strongly punctured, longitudiually rugose at base of second, gastroceli small and deep; last ventral segment searcely retracted. Length . 45 ineli.

Hab. Great Salt Iake, Utah.
Amblyt.les hiulcus, Cresson (Trans. Am. Ent. Soc., vi. 194).
P.-Long, narrow, cylindrical, shining ferriginons; sutures of thorax, apex of posterior tibize and sometimes of their femor:r, and hasal margins of abdominal segments $3-5$, hack; head narrow, buccate ; antennæ long, slender, curled, and fuscous at tip, third joint at least three times longer than broad, cylindrical, much longer than fourth; mesothorax strongly punctured, convex; scuteltum subconvex, polished ; metathorax ohliquely trumcate behind; wings dusky-hyaline, stigma yellow; legs slender; abdomen smooth and polished, long, narrow, subcompressed at tip; apex of first segment narrow, with almost parallel sides,

Alepressed above and imblistinctly scolptured; base of seennd slightly narowed, depressed, very finely and sparsely punctured, gastroceli longitudinal, subobsolete; last rentral segment long. narow, not retracterl. Lengeth . 4 S inch.

Hab. Lake Lahache, British Colnmbia (Crotch).
Trogus Edwardsii, Cresson (Trans. Am. Ent. Soc., vi. 195).
§.-lback; head transwersely subtriangular, not at all buccate; face. clyens, labrum, mandibles, palpi, narrow mper anterior orbits. line on posterio: orhits, scape beneath, and most of flagellum beneath, two spots in front of mesothorax, sentellums, eicrated disk of metathorax and tegulae, ferruginous; sentellum acntely pyramidal; metathorax with two sharp longitndina! ridges hehind, between which the surface is coarsely and transversely rugose; wings blackish-fuliginous, violaceons; legs slender, fellowish-ferroginous, fom anterior coxa at base and posterior pair entirely black; abdomen depressed, longitudinally aciculated, the segments strongly constricted at base, especially at sides, ferrnginous, a black spot on disk of second and following segments, becoming gradually larger, until the one on the fifth covers neurly the entire upper surface of the segment; apex of first segment quadrate, narrowing suldenly before tubereles; gastročeli large and deep. Length .is inch.

Hab. Tancourer's Island (H. Elwards). A very pretty species.
Trogus buccatus, Cresson (Trans. Am. Ent. Soc., vi. 199).
\&.-Robust, ferruginons; head large, strongly buccate, cheeks much swollen; tips of mandibles and antenme, except hase, black; scutellum gibbous. convex, sides very abrupt; metathorax seabrose, with two sharp, divergent carine behind, between which the surface is transversely striated, central area small, raised and not well defined; wings violaceous black in one specimen, and yellowish-fuscous in another; stigna fulvons, areolet shaped as nsual in the genus; abdomen robust, subconvex; densely and finely punctured: gastrocæli large, but not deep. Length . 60 inch.

Hab. Tancourer's Island (H. Elwards).
Platylabus consors, Cresson (Trans. Am. Ent. Soc., vi. 200).
S.-Black; anterior orbits, broad on face. line on posterior orbits, sides of clypens, spot on mandibles, palpi, scape heneath, upper margin of the prothorax narrowly, sometimes interupted,
dot on tegula and a line beneath, white; antemas as long as the body, slender; scutellum distinctly margined, with a pale spot towards tip; metathorax obliquely truncate hehind, lateral angles small, subspiniform ; wings hyaline; legs blackish. tips of posterior cosx, their trochanters and all the femora ferruginons, spot on anterior coxe beneath, spot on four anterior trochanters and their femora and tibise in front whitish; abdomen shining, feehly punctured; gastrocreli deep, transverse. Length . 35 inch.
$I^{\top}$ ar. Ablomen black, with segments 2-5 narrowly margined with red at apex; metathorax entirely black, legs mostly black, posterior femora only tinged with red.

Hab. California (Behrens). This may be the of of californicus.

Platylabus californicus, Cresson (Trans. Am. Ent. Soc., vi. 201).
ㅇ.-Ferruginous, shining; anterior, and sometimes posterior, orbits more or less white; occiput sometimes blackisir ; antenmæ long, slender, more or less black; upper margin of prothorax sometimes narrowly white; mesothorax often varied with black; scutellum strongly margined; metathorax obliquely truncate behind, bounded above aud laterally by a sharp carina, lateral angles prominent, spiniform ; wings hyaline; abtomen polished, a few small punctures at base of second segment; gastroceli transverse, deep, nearly meeting on disk, apex of first segment rather broad, depressed, smooth, sparsely punctured. Length . 35 inch.

Hab. San Zalito, California (Behrens.).
Phygadeuon Crotchii, n. sp.
ㅇ.-Robust, back, shining; mandibles, palpi and upper anterior orbits more or less ferruginous; antenne long, stont, a hroad white ammlus on middle, third joint rather more than twice longer than broad, and equal with fourth; mesothorax finely punctured ; scutellum triangular, flat, sparsely punctured; metathorax opaque. densely sculptured, not areolated, broadly excavated behind, lateral angles prominent, tuberenliform; tegulæ ferrnginons; wings yellowish-hyaline ; legs suhrobnst, ferroginous, coxie, trochanters, posterior femora except base. and tips of their tibise black, anterior tibix yellowish; abdomen depressed, smooth and polisherl, apex of first, and second segment entirely. ferrugímous; first segment robust, broad at apex ; ovipositor short. Length .38 inch.

Mah. Lake Lalathe, British ('olmmbia ((i. W). Croteh). A very distinet species.

Phygadeuon albirictus, n. sp.
8.- Black; head buccate, checks swollen; mandibles, patpi, sc:ape bencath and tegula, white; wings hyaline. iridencent; metathorax areolated; anterior legs, and fond posterior thbix fermginous, four anterior trochanters pale. tifs of posteriof tihis blackish; abromen shining, impunctured, first and base of serond segment finely aciculate, narow apical maren of second, and most of third segment pale ferruginous; first segment narow, slightly wider towards apex. Length . 20 inch.

Hab. Califormia (11. Edwards).
Phygadeuon limatus, n. sp.
P.--black, slining; head scareely luceate; mandibles, antenma at base, tegulx, legs and abdomen, except first segment, furucrinous; palpi pale ; antemar slender, basal joints of flagellum slender, erlindrical ; metathorax strongly areolated, excarated hehind, with prominent lateral angles: winer hyaline, areolet quite small, 5-angulir' legs slender, posterior tarsi hackish; abhomen ovate, convex, smooth, polisherl, impmotmred, first segment gradually dilated to apex. with prominent lateral thbereles hehind the michdhe, apex narrower than base of second segment; ovipositor about half the length of abolomen. Length . 25 inch.

Hab. California (II. Edwards).
Phygadeuon crassipes, Provancher (Nat. Can. ix., p. 11).
¢.-Kohnst, black; clypeus, mandibles, palpi, antemre except tips, tegnax, legs and abdomen ferruginous ; antennæ robust, with short, thick-set joints; disk of mesothorax flat, depressed and rugose ; exeavation at hase of scutellum bifoveolate, deep; metathorax distinctly areolated, the carime sharp and well defined, posterior face deeply excarated. lateral angles prominent, central area transversely orate; wings finscous; legs rohnst, femora swollen, tibite dilated at apex, and strongly setose ; ablomen smooth, shining, impunetured, apex of first segment broadly dilated, Hattenerl. Length .20-. 30 inch.

Hab. California; Vancouver's Island (H. Edwards).
Phygadeuon californicus, n. sp.
§. -Black, shining ; head large, face pubescent ; clypeus. mouth, antenme at base bencath, tegulæ, legs and abolomen, fermginons;
antennæ long; metathorax strongly areolated, trumente behind; wings sinoky; legs snhobust; abdomen elongate, shining, impunctured, first segment blackish at hase, strongly bicarinate before apex, which is a little narrower than base of second segment; alpical segment black. Length . 25 inch.

Hab. California (H. Erlwarts). 'This may be the of of crassipes. Phygadeuon fulvescens, n. sp.

ㅇ.-Shining, fulvo-ferroginons; apical half of antemme black, third joint rather more than twice longer than wide, and longer than fourth ; cheeks, mesothorax. and scutellum polisherl, impunctured; inctathorax subopaque, not areolaterl, deeply excavated hehind, lateral angles prominent, the carina lreing shary, a triangular rugose space on summit; sutures of thorax bencath more or less hlack; wings smoky, stigma fulvous; legs salnobust, tibiac smontli; abdomen polisherl, impunctured, apex of first segment gradnally dilated to tip, which is morlerately broarl ; ovipositor short. Length . 35 inch.

Hab. Califormia (J. Edwards).
Cryptus proximus, Cresson (Proc. Ent. Soc., Phila., iii. p. 290).
¢.-black, legs except coxie furuginous; wings violaceous, black; abdomen with a huish tinge; all the coxie slender, simple; antenne setaceous. very slemper. Length .fan inch.

Hab. Tancouver's Island (H. Edwards). Differs from Colorado specimens only ly the darker wings.

I var.? perplexus.-Scape bencath, spot on mandibles and the legs, inchding coxie and trochanters, brown-fermginous.

Hab. California (H. Edwards).

## Cryptus dirus, n. sp.

ㅇ.-Black; ahdomen except first segment ferruginons; anterior legs tinged with ferruginons; antemme slemer, fourth joint about two-thirds the length of third ; a short narow pale line on posterior orbits; prothorax, pleura, and metathorax rugose; mesothorax finely punctured; wings fuliginous, areolet moderate, side nervures slightly oblique; tarsi simple; aldomen shining, impunctured; ovipositor nearly as long as abdomen. Length . 43 inch.

Hab.-California (II. Edwards).
Cryptus relativus, n. sp.
ㅇ.-Black; legs except coxse, trochanters, posterior tibix, and
tarsi, and atulomen exeept first segment more or less, fermeinons;
line or spot on antrior orhits and posterior onhits narowly whitish; antemneseraceons, very slender. the fonth joint abont threefourths the length of thirl, which is long and cylindrical ; mesothorax with deeply impressed longiturinal lines, shining. confusedly punctured; prothorax, peura, and metathorax opague, rucose, obliruely so on sides of metathorax, which is truncate beinind, with prominent subacute lateral angles, disk with a subtrianisular, illefefined inclosure ; wings fuscons or faliginous, areolet monlerate, with sitle nervures slightly ohlique ; legs slender, the joints of the four anterior tarsi dilater and spinose. posterior tarsi fuscons; alromen impunctate, with first segment slemeler at base, gradually and slightly dilated to apex, hicarinate on disk, black, the apex sometimes lemginous; ovizositor two thinds the langth of abrlomen. Length . 55 inch.

Hub. British Colmmbia (Croteh). Closely related to robustus: Cres., from Colorato, which also has the four anterior tarsi dilated, but has all the tibiat ferruginous, the abdomen black, with the apex only sometimes ferriginous.

Cryptus pictifrons, n. sp.
§.-Black; fonr anterior legs except coxe and trochanters. posterior femora and the abdomen except first segment finseo-ferruginons; anterior orbits, broal on face, line on posterior orbits. spot on clypeus and spot on mandibles, white; mesothorax and scutellum shining, rest of thorax rugose, opaque; a well-defined arcuated carima across metathorax on verge of truncation, and an irregular transerse one across the middle, the space between the two longitndinally rugose; wings hyaline, arcolet morlerate, almost quadrate; posterior tibixe and basal joints of tarsi back. remainder of their tarsi whitish; abdomen slender, shining, impunctate, first segment slightly broaler posteriorly, with prominent lateral tubereles. Length .52 inch.

Hab. Green River, Wyoming 'Territory (Iutnam).
Cryptus tejonensis, n. sp.
ㅇ.- black; orbits, sometimes spots on face, on elypens, and on mandibles, seape beneath, legs including coxe, and abolomen entirely, ferrnginous or sangnineous ; antenne setaceous, very slenter; metathorax with spiniform lateral angles; wings fuliginous, more or less violaceons; tarsi slender, simple; apex of first
abrlominal segment broad, nearly quadrate, the sides being straight, ovipositor long. Length .45-. 70 inch.

Hab. Fort Tejon, California (H. Edwarls, Crotch).
Cryptus pacificus, n. sp.
§.-Black; legs including corie and abdomen entirely, ferruginous; orbits, interrupted behind summit of eyes, spot on middle of face, clypens, spot of mandibles and palpi, whitish; antemar long, scape beneath sometimes tinged with red; tegulæ reldish in front; mesothorax and scutellum shining, the former with two deeply impressed lines; metathorax rugose, with two irregular, wary, transverse carinæ, somewhat confused on the disk, lateral angles subacute; wings lyaline, apical margins nurrowly dusky; areolet moderate, broal, nearly quadrate; legs long, slender, posterior tibia dusky, their tarsi whitish beyond first joint, sometimes the anterior coxa and the four anterior trochanters beneath are pale; abromen long, slender, especitlly at base, shining, impunctate, the first segment slightly widener towards tip, lateral tubereles prominent, behind which the upper surlace is somewhat suleate. Length . $45-65$ inch.

Hab. California (II. Edwards).
Cryptus latus, Provancher (Nat. Can. vi. p. 204).
Q.-Small, black ; antemme with a white amulus ; four anterior legs except coxæ and trochanters, posteriol femora except tips, and the three basal segments of abdomen ferruginons; wings fusco-hyaline; base of posterior tihie and of the first, and more or Iess of the second, joint of their tarsi, also of the tibial spurs, white; a white spot at apex of abdomen; ovipositor as long as abdomen. Length 25 inch.

Hab. British Columbia (Croteh .

## Cryptus atriceps, n. sp.

ㅇ.-Fulvo-ferruginous; hearl entirely black; palpi pale; antenne black beyond the fifth joint, joints $8-10$ white above, third joint very long, alout one-fifth longer than fourth; sutures of thorax more or less black; impressed lines of mesothorax black anteriorly ; a line or spot on upper margin of prothorax, tegula, apex of scutellum and spot on postscutellum, white; metathorax finely sculptured, a well-thefined transwerse carina before the middle, lateral angles small, spiniform ; wings fusco-lyaline, áreolet pentagonal ; tips of posterior tibie and of their tarsi dusky,
speond and third Joints of the latter white; abdomen robnst, minutely punctured on second segment, apex of first segment dilated ; apex of abdomen dusky, ovipositor long. Length .2: inch.

Mab. Great Salt Lake, Utal.
Cryptus calipterus, Say (Bost. Journ. Nat. Hist., i p. 234).
8.-Ferruginons ; antennt except hase, tips of posterior tibia and band at base of thitd ablominal segment, black; head narrow, cheeks flat; third joint of antenme about four times longer than broad, and equal with fourth ; wings yellow with three broad fuliginous bands, the apical one broadest and conflnent beneath with the middle band, leaving a triangular yellow spot beyond areolet, which is small and nearly quadrate; ovipositor longer than albdomen. Length . 50 inch.

Hab. California (Streteh), Utalı. The specimen from the last locality is paler fermginons, with tip only of antenam hlack, and the fuscous bands on wings quite narrow.
Cryptus Crotchii, n. sp.
ㅇ.-Robust, fulvo-fermginous; head subbuccate ; antenme black at tips, third joint rather more than three times longer than broad, and equal with fourth; mesothorax and scutellum shining, minutely punctured ; pleura confluently punctured, opaque; metatthorax rugose, opaque, an arched transrerse carina above posterior truncation ; wings yellow, marked as in calipterus, areolet small, nearly quadrate; tips of posterior tibia hlack, tarsi strongly sctose beneath; abdomen opague, impunctate, a black band at hase of third segment, apex of first segment squarely dilated, somewhat suleate medially ; ovipositor as long as the abdomen. Length . 60 inch.
§.-Yellowish-ferruginous; face, clypens, and checks yellow; antenme stont, slender at tips, which are black as well as joints two and three above; prothorax beneath, plenra, sides of metathorax, and lateral region of scutellum, more or less black; wings yellow-hyaline, with the fuscons bands nearly or quite obliterated; ablomen slender, base of third and fourth segments more or less black; sometimes the whole abdomen is obfuscated. Length . 50 inch.

Mab. San Diego, Califormia (Crotch). Closely allied to calipterus, but more robust, with broader head, and shorter basal joints of flagellum.

Cryptus turbatus, n. sp.
ㅇ.--Size and sculpture of Crotchii, but of a darker feruginons color ; apex of antennæ, sutures of thorax, tip of posterior tibix. and hame at base of third abdominal segment, hack; metathorax scabrous, rounded, subtrumeate behind, with a short oblique carina on each side; wings fuliginous, a paler patch immediately hefore and behind stigma, areolet smal!, quadrate; otherwise as in Crotchii. Length . 60 inch.

Hab. California (Stretch). This may prove to be only a darkwinged variety of Crotchii.

Cryptus resolutus, n. sp.
\}.-Fulvo-ferruginous; head hlack, sides of face, spot on middle, clypeus and labrum yellow; orbits very broad behind eyes, but narowed beneath, palpi and scape beneath fulvous; remainder of antenme black; prothorax except upper margin, whole of plemra, broad stripe on anterior middle of mesothorax, lateral region of scutellum, basal margin of metathorax and the flanks, black; mesothorax shining, sparsely punctured ; scutellum elongate, flattened, polished; metathorax rounded, depressed above, pubescent, without transverse carine; wings fusco-lryaline, darker at tips ; the coxæ, except posterior pair above, stripe on posterior femora beneath and tips of their tibiæ black; abdomen slender, especially at base, smooth and polished, basal margin of second and following segments more or less black, first segment slightly broader at tip. Length . 55 inch.

Hab. California (11. Edwards).

## Cryptus Edwardii, n. sp.

ㅇ. Ferruginous, shining; head buccate, cheeks swollen; antenne unusually short, third, fourth, and fifth joints each rather more than twice longer than hroad, sixth joint quadrate, remainder transverse, apical joints black; sides of thorax and legs with sparse glittering hairs; mesothorax with a few scattering large punctures; pleura sparsely punctured; metathorax obsoletely sculptured, destitute of carinr, the flanks smooth and shiuing, posterior face with a hroad shallow excavation, sisles romuled; wings fuliginous or generally fusco-hyaline, darker on apical margins, sometimes yellowish-hyaline, subfasciate with fuscous, areolet moderate, subquadrate; legs robust, the femora somewhat swollen, four anterior tarsi with dilatel, spinose joints, the inter-
merliate tibise densely spinose; abiomen robust, impuncturen, apex of first segment rather hroally dilaterl, hase of thirl segment narrowly black; ovipositor about as long as abolomen. Length . $40-.60$ inch.

Mab. California (H. Edwards); Wilmington, Cal. (Croteh). Very distinct by the form of antennat and legs. 'The color of the wings varies greatly.
Cryptus punicus, n. sp.
S.-Dark rufo-ferruginous, shining; liead long, narrow, sulitriangular in front, ehecks ilat, polished ; antenne long. setaceous. very slender, black, scape ferruginous; mesothorax and scutellun smooth and polished, with a few scattering punctures, the two longitulinal impressed lines on mesothorax very deep; prothorax aurl pleura opaque, finely rugose, obliquely so on pleura; metathorax rugose, opaque, truncate hehind, the verge with a sharp carina, ending on each side in a short stont spine, disk with a sub)triangular inclosed space; wings dark fuliginons, violaceons, areolet moderate, subquadrate; legs slender, tarsi sleuder and simple, posterior tibix more or less fuscons, midde of their tarsi pale; abdomen shining, impunetured, first segment with moderately dilated apex, before which the disk is strongly bicarinate; ovipositor two-thirds the length of ablomen. Length . 55 inch.
§, -Very slender; dark ferruginous; shining; a broad= band extending from base of antemme to posterior margin of oceiput, tips of mandibles, antenure except scape and sutures of thorax nearly black; anterior orbits sometimes yellowish; plenta finely punctured ; metathorax oblique, subeonvex, gradually deseending to tip. finely punctured, thickly clothed with short black pubescence, flanks strongly punctured; legs slender, posterior tibire more or less obfuscated, tarsi beyond first joint yellowishwhite; abdomen slender: polished, first segment very slightly wider posteriorly, the lateral tubereles prominent. Length .50. 55 inch.

Mab. California; Washington Territory; Vancourer"s Island (H. Edwards).

Cryptus purpuripennis, n. sp.
ㅇ.-Ferruginous, shining; head subbnecate, deeply excarated behind antenne; antems long, rather slender, apical half black, joints $3-5$ equal in length, each being about three times longer
than broad; mesothorax convex, sparsely and finely punctured, with a few scattering larger punctures; pleura and flanks of metathorax finely punctured, shining; upper portion of metathorax finely shagreened, subopaque, rounded, without carinæ, except on verge of the posterior truncation; wings blackish-fuliginous, strongly violaceous, areolet small, nearly quadrate; legs rather slender, tarsi simple; abdomen swollen heyoul first segment, polished, impunctured, apex of first segment dilated, clisk of first and second segments with a shallow depression; oripositor as long as abdomen Length .55 inch.

Hab. California (H. Edwards). Resembles punicus very much in color, but the heal is more buccate, the antenne more robust, with shorter joints and differently colored ; the sculpture of the thorax and shape of the abdomen are entirely different.

## Linoceras Edwardsii, n. sp.

§.-Black; face, clypeus, labrum, mandibles, palpi, upper anterior orbits, line on posterior orbits, scape heneath, tegula, spot beneath, and the scutellnms, pale lemon-yellow; antenne orangeyellow, black at extreme tips; wings lyaline, tinged with yellow, extreme apical margins fuscous; legs yellow, very slender, posterior pair rery long, posterior cosæ, base of their trochanters above and their femora except base, and tips of their tibiæ beneath, black; abdomen very slender, lemon-yellow, base of second and following segments broadly black, also a black spot on apex of first segment between tubercles and tip. Length . 55 inch.

Hab. California (H. Edwards). A very handsome species.

## Mesostenus gracilipes, n. sp.

9.-Elongate, narrow, shining, uniformly fulvous; tips of mandibles, antennæ, except scape and third joint beneath, and extreme base of posterior tibise black; antenne long and slender; mesothorax prominently trilobed, sparsely punctured ; metathorax obliquely depressed behind, rugulose, with an angulate carina at base, anterior to which the surface is smooth and shining; wings fuscous. areolet long and very narrow; legs long and very slenfer, especially the posterior pair, the trochanters of which are half the length of the femora, the posterior trochanter about double the length of the anterior one; abdomen polished, first segment long, slightly swollen at tip, base of second segment considerably
contractul ; oripusitor rery long, ne:ixy twice the length of borly. Lensth . 4 fi inch, of ovipositor .9月 inch.

Hab. ('aliformia (H. Edwarls).
Ophion costale, n. sp.
S.-Fulvo-feruginous, shining; fice hroat. the middle closely punctured, subtuberenlate immerliately bencath base of antenna; clypeus strongly bunctured, tips trumeate, lateral sutures and tips of mandibles black; cheeks swollen; antennat shorter than namb. reaching abont to tip of secoml ablominal segment; mesothomax convex, polished; sentelfum very eomvex; metathorax conflnently punctured, withont transerse carinat. sutures of thorax narowly hatk; wings subhyaline, stained with yellowish at base and with fuscons along apieal costal margin, (arkest at tip of marginal rell; hasal margin of third and fourth abdominal segments and an obligue mark on sides of second sergment, hack. Length .5:3 inch.

Hab. Klamath Co., California (II. Edwards). Readily distinguished from all the other species known to me by the ornamentation of the wings.

Nototrachys californicus, $n$. sp.
Q.-black; orbits entirely, broad beneath antennæ, sides of clypeus, manlibles, palpi, short stripe on each side of mesothorax, tegula, spot before, another beneath, and spot on scutellum, yellow, sometimes shading into sanguineons; antenne brown, seape beneath paler; mesothorax transversely rugose; metathorax reticnlater, densely silvery-sericeous at the sides and at apex; wings hyaline, irilescent; legs honey-yellow, four anterior coax and their tihite and tarsi more or less yellow; posterior lens brown-fernginons, coxie back, tips of femora and of thite hackish, tarsi fuscons, bale at base of joints 1 and 2 ; abdomen black, shining, second, third, and fourth segments more or less brownferrginous. Length . 32 ineh.

Hab. San Diego. Callifornia (Crotelı).
Exochilum occidentale, n. sp.
Q.-Black, head and thorax clothed with short black pubescence, coarsely punctured; orbits, broad on each side of antennæ, and interrupted hehind summit of eyes, stripe down midille of face, clypeus, labrum, upper margin of mandibles, and palpi, yellow; antenne fulrous, scape black; tegule and scutellum yellow-
ish; spot on each side of plenra posteriorly, and on flanks of metathorax fermginous; metathorax coarsely reticulated, subconcave; wings fusco-lyaline, stained with yellowish, stigma and costal nerve honey-yellow; legs yellow, all the coxæ, apical half of posterior femora and apical third of their tibiæ, black; abrlomen honey-yellow, polished, basal two-thirds of upper edge of second segment, stripe on each side of fourth segment, and the following segments entirely black. Length . 70 inch.

Hab. Oregon (II. Edwards). This aiso oceurs in Colorado.
Anomalon Edwardsii, n. sp.
ㅇ.-Ferruginous, head and thorax clothed with a short pale sericeous pubescence; head short, broad, yellow, vertex, occiput, and posterior margin of cheeks black, upper part of chceks tinged with ferruginous; a transverse prominence immediately beneath insertion of antenme; antennæ two-thirds the length of body, fulvons, darker above, first, second, and base of third joints black above and yellow beneath; three broad stripes on mesothoras, the lateral ones confluent behind, prothorax anteriorly, pleura, except anterior margin, and base of metathorax, black: metathorax very coarsely reticulated; wings fusco-hyaline, darker beyond stigma which is fulvons, discoidal cell very slightly narrowed at hase; four anterior legs honey-yellow.tibize and tarsi paler; posterior legs black, second trochanter and extreme base of femora ferruginons, basal half of tibiæ and the tarsi, except terminal joint, yellow, tarsi thickened, the first joint neariy three times longer than second; abdomen shining, ferruginous, apex of first broad, upper margin of second, and the fifth and sixth segments entirely black, sides of third and fourth raried with fuscons. Length .85 inch.

Hab. Vancouver's Island (Henry Edwards).
Anomalon californicum, n. sp.
. O.-Ferringinous, head and thorax clothed with short brownish pubescence; face, orbits, and clypeus yellow, spot inclosing ocelli black; antenne short, stout, about lalf the length of body, scape yellow beneath; sutures of thorax narrowly black; mesothorax shining, sparsely punctured; seutellum giblous, slightly furrowed down the middle; metathorax coarsely reticulated, depressed and subconcave above; wings tinged with yellowish-fuscons, darker at tips, discoidal cell not narowed at base; fonr anterior legs honey-yellow, posterior pair fulvous, with tips of femora' and of
tibiae black, tansi yoflow, thickenml. first joint twice the lengrth of secome ; abolomen shining, hasal liall of mpere elge of seeond segment and upper edige of fifth and sixth segments back, lower marein of apical segments tinged with blackish. Length ofs inc!

IIab. Califormia (II. Ellwarls).
Anomalon verbosum, n. sp.
今 \&.-Black; heal large, face narrowed beneath ; narrow orbital line on each side of face, dot at summit of eyes. spot beneath eyes and mandibles except tips, yellowish; antenua short, about as long as head and thorax together, entirely hack; thorax immaculate: fathorax reticulated, grooved down the midrlle; wings fuseo-hyaline, discoidal cell rery much contracted at base : legs rufo-ferrginous, coxe and trochanters black, posterior tibie fuscous in $\circ$, their tarsi blackish in of with basal joint slighty thickened, and in $\delta$ with second and third joints ferruginous and basal joint dilated ; ablomen yellowish-ferruginous, upper edge of second segment and the filth and following segments black, sometimes only the apex of fiftli segment is black. Length . 10 inch.

Hab. Califormia (II. Edwards).

## Anomalon maceratum, n sp .

S.—Black; head and thorax *lothed with short pale pobesecnce; head not wider than thorax. cheeks prominent; orbits, face, clypens, labrum, mandibles except tips, palpi and scape beneath, yellow ; antenna abont half the length of body ; posterior middle of mesothorix depressed and transversely rugose; prothorax and pleura more or less, longitudinally striated; scutellum rugose, with two reddish spots at tip; metathorax coarsely reticulated, suleate down the middle; tegulæ fulvons; wings fusco-lyyaline, discoidal cell slightly narrowed at base; four anterior legs yellow, their femora honey-yellow, posterior legs ferruginous, base of coste and apex of tibiz black, tarsi yellow, slightly thickened, first joint about twice as long as second; abdomen long, slender, fulvo-frruginons, upper edge of second and the two apical segments hlack. Length . 60 inch.

Hab. Califormia (H. Edwards).

## Anomalon vivum, n . sp .

f.-Feruginous; vertex, covering ocelli and occiput, black; face, orbits, elypeus and mandibles yellow ; anteme about half
the length of body, black, brown beneath, scape yellow beneath; prothorax in front and pleura beneath lilack; metathorax reticulated, deeply salcate down the middle, with a short arcuated carina on each side near base; wings yellowish-hyaline, discoidal cell slightly narrowed at base; tips of posterior tilire dusky, their tarsi slender, yellowish; abdomen shining, with upper edge of second and following segments narrowly black. Lengtl . 50 inch.

Hab. Oregon (H. Edwards).
Campoplex major, n. sp.
P.-Black, opaque, clothed with short whitish pubescence, more dense on face and metathorax ; mandibles, palpi and tegula lemon-yellow; a tuft of long pale pubescence on each side of scutellum; middle of metathorax longitudinally concave and transversely acienlated; wings hyaline, tinged with yellowish, a little smoky at tips, areolet large, rhomboidal ; anterior legs except base of cose and trochanters and femora beneath, intermediate trochanters and femora above, their tibiæ and tarsi entirely, and a stripe on outer side of posterior tibie, lemon-yellow ; four anterior ungues black; abdomen shining, ferruginons, base of first segment, its apex above, upper surface of second segment and base of third, black. Length . 75 inch.

Hab. Yancouver's Island (H. Edwards). A fine large species.
Limneria californica, n. sp.
§.-Black, shining; mandibles, palpi, scape beneath, and tegule yellow ; flagellum testaceous beneath towards the tip; metathorax transversely rugulose heiind; wings hyaline, iridescent, areolet small, petiolated; legs fulvo-ferruginous, four anterior coxæ, aind all the trochanters yellow, base of posterior tibix and of their tarsi yellowish, posterior coxa and base of their trochanters black; narrow apical margin of second abdominal segment and apical half of thirel ferruginous. Length . 30 inch.

Hab. San Diego, California (Croteli).
Mesochorus iridescens, n. sp.
¢.-Luteo-testaceous, polished ; tips of mandibles, spot behind antenne, back of head, three broad stripes on mesothorax, broad band at base of metathorax, pleura beneath, and first abdominal segment except tip, black; antemm long and slender, fuscous, paler at base, seape beneath luteons ; tegula white ; wings lyyaline, beautifully iridescent; legs pale, tips of posterior tibice and of
their tarsi blackish; sides of secome abdominal segment and the apical segments more or less stancel with fincous. Lengrth .2.) inch.

I/nb. ('alifornia (behrens).
Pristomerus pacificus, n. sp.
f.- lBack; orbits and clypens lemughons. mamlibles fellow. antemne entirely hack; tegnaryellow; wings hyaline, iridescent; legs, incluting coxa, fernginons, anterior pair paler, posterior trochanters, tijs of their tibite and their tarsi more or less dusky, femoral tooth rohnst ; ablomen polisherf, ferroginons, first segment exeept apical margin, basal two-thirls of secom, amt hase of remaining segments more or less black; ovipositor thee-fonths the length of abdomen. Length . 30 inch.

Herb. California (II. Ealwards).

## Exetastes maurus, n. sp.

ㅇ.-Entirely black, shining, rohnst; head and thorax clothed with short hata pulescence; antenna tinged with hrown; mesothorax strongly and rather closely punctured; scotellam gibhons, coarsely punctured ; metathorax coarsely rugose, opatue; wings dark fuscous, paler towards tips, violaceous; abdomen short, rohust, polished, impunctured. Length . 45 inch.

Mab. California (H. Elwarts).
Exetastes zelotypus, n. sp.
\} f.-black; shining; thorax closely amil fincly punctured, metathorax finely rugose; wings fuliginous, strongly violaceons; tips of anterior femora and thise and posterior femora of four anterior femora except base, their tibire and tarsi entirely, posterior femora and base of their tibite $\delta$, ferroginons; abolomen entirely fermginous, polished, elongate, and rather slender at base. Length . 50 inch.

Mab. San Diego, California (Crotch).
Grotea californica, n. sp.
ㅇ.-Head and thorax yellow, polished, impunctured; oceipht, middle of vertex, three stripes on mesothorax, stripe on pleura and base of metathorax fulvo-ferruginous ; two fuseons spots behind scape ; antennæ fulrons, scape dusky above (joints 10 and following wanting) ; sutures of thorax and a wedge-shaped mark on sides of pleura black; wings pale fuliginous, a small dark cloud in apical margin; legs yellow, the femora and posterior legs more
or less raried with fulvous; alblomen fulvo-ferruginous, the first segment, except a stripe above and spot at tip above, and also spot on each side of all the segments becoming larger on apical segments, yellow. Length . 70 inch.

Mab. ('aliformia (H. Edwaris).
Mesoleptus innoxius, n. sp .
§.-Honey-yellow; face, clypeus, mandibles, exeept tips and palpi, tegula, spot before and spot beneath, pale yellow ; antenne long and slender, dusky at extreme tips; large spot on pleura beneath, and sides and tips of metathorax more or less black; wings hyaline, iridescent, stigma luteons, areolet small, petiolated; legs long and slender, four anterior coxe and trochanters pale yellow; abdomen dark honey-yellow or fulvous, base of first segment black, apical segments more or less varied witl dusky; first segment straight, not slender at base and slightly dilated to aper, lateral tubereles large and prominent. Length . 30 inch.

Mrab. Lake Quesnel, British Columbia (Crotch).

## Mesoleius Stretchii, n. sp.

ㅇ.-Opaque black; head rather swollen behind the eyes; clypens, mandibles except tips and scape beneath luteous; sites of mesothorax tinged with dull ferruginous; metathorax with an inclosed elongate central area; tegula yellowish white; wings liyaline, iridescent, stigma luteous, areolet small, triangular, subpetiolated; legs slender, and with coxa, pale ferrnginons, four anterior coxe beneath and their trochanters yellow; tips of four anterior tarsi and posterior pair more or less fuscous; abdomen sulpetiolated, finely and densely senlptured, depressed at base, first segment very slightly enrverl, gradually dilated to tip which is broarl, upper surface flat and even, the lateral margin finely carinate, sides of apex yellow ; lateral margin, broad at tip and very narrow apical margin of all the segments-sometimes indistinct on second and third, pale yellow; second and third segments sometimes tinged with brown. Length 27 inch.

Hab. California (Stretelı).

## Mesoleius? aleutianus, n. sp.

§.-Slender, black, head and thorax with short pale pubescence; head short, subbuceate ; antenne long, curved at tip, metathorax flat and declivous behind, with earinate sides; seutellum longitudinally compressed, convex above; metathorax roughened,
sulosulcate on cach sille of midrle, spiracies small, circular; terghe whitish: wiugs hyaline, beantifully iridescent, stigma rather large. fuscous, areolet 5 -angular, with thickened nervires; legs long and very slencler, ferroginons, coxie and trochanters black, tips of pusterion femora, their tibie and tarsi more or less dusky; abrmmen sulsessile, slightly widened to tip, spitacles placed a little before the middle. Length . 30 inch.

Hab. Alentian Islants (II. EXdwads).
Mesoleius ? lætus, n. sp.
§.-black; face, clypeus, mandibles except tips. palpi, scape bencath. spot on each side of mesothorax in front divided by impressed line, spot hehind anterior coxe, tegula, short line beneath, four anterior cose, trochanters, femora and tibix, posterior trochanters, extreme base of their femora, basal two-thirds of their tibiae, and abolomen exeept two apical segments, all pale yellow: apex of flagellum fulvous beneath; wings yellowish byaline, no areolet; legs slender, all the tibie honey-yellow, claws simple; abromen subpetiolated, subclavate, being gradnally broader to tip, the first and fourth and fifth segments often stained with finlvous. Length . 35 inch.

Hab. Tancouver's Island (II. Edwards).

## Mesoleius? rubiginosus, n. sp.

§.-Fulvous; face, elypens, mandibles except tips (which are black), palpi, spot on seape beneath, tegulae, short line beneath. sentellum, pleura bencath, four anterior coxemm trochanters, ami middle of tarsi pale yellow ; tips of antenna and sutures of thorax black; wings dusky, no areolet; base of posterior tibie sometimes pale, claws simple; abdomen subpetiolate, subclavate. Length . 40 inch.

Hub. Califormia (H. Edwards).

## Tryphon tejonicus, n. sp.

§.-Mlack, shining, elothed with a short, pale sericeous puhescence; heal broad, clypens, anterior margin of tegula and legs except coxre, fermginous; mesothorax broad, gibbous, finely puncturel; seutellum very abrupt posteriorly, depressed above and carinate laterally; metathorax short, with strongly eleratel carine; wings hyaline, nervures and stigma black, areolet obliquely triangular, subpetiolated; legs short and robust, especially the femora, claws simple ; abdomen short, broad towards apex, sessile,
densely sculptured, opaque; first segment broad, with two strongly elerated longitudinal carine on middle extending to the tip. Length . 25 inch.

Hab. Fort Tejon, California (Crotch).

## Tryphon lusorius, n. sp.

§.-Black, rather shining, clothed with a short pale sericeous pubescence ; apex of clypeus, mandibles and tegule yellow; antemme pale beneath at tip; wings hy̌aline, iriclescent, stigma fuscous, pale at base, areolet small, rhomboidal, petiolated; four anterior legs yellow, coxie, trochanters and femora beneath black; posterior femora robust, feruginons, black at base beneath and at extreme tip, coxæ, trochanters, tibiæ and tarsi black or fuscons, the tibie above with a yellow stripe extending from base nearly to tip, clans simple; abdomen subclavate, ferrginous, the first segment entirely, second except apex, and base more or less of remaining segments black; first segment slightly narrowed at base, not carinate above. Length . 25 inch.

Hab. California (H. Elwarls).
Tryphon californicus, n. sp.
今 ㅇ.-Black, shining, clypeus, mandibles, palpi and tegulæ yellow; head rather broad; face with an elevated, flattened, strongly punctured space on the middle; metathorax with two approximate longitudinal carinæ on disk, two on each side and a circular one at tip; scutellum conrex, deeply excarated at base; wings hyaline, areolet small, oblique, petiolated; legs robust, fulvo-feruginons, coxze and trochanters black, four anterior tibiæ and tarsi yellow, tips of posterior femora, their tibie and tarsi more or lesis fuscons or black; abdomen ferruginous or fulvous, sometimes fusco-ferruginous, in $f$ the first segment only is black with apical margin ferruginous, in the first and often more or less of the base of second and third segments black; first segment at base above sub-biearinate. Length 20 inch.

Hab. San Diego, California (Crotch).
Erromenus obscurellus, n. sp.
ㅇ.-Black. shining; head broad; face broad and flattened. densely seulptured ; spot on mandibles and palpi dull testaceous; mesothor:as minutely punctured; scutellum convex; metathorax with strongly elevated lines; wings hyaline, areolet oblique, subpetiolated; legs subrobust, black, tips of femora, a line on poste-
rior pair above, aml all the tibite and tarsi fermginons, tips of posterior tibia and tarsi dusky ; rlaws pectinated ; abomen subsessile, subeompucsed at tip, first segment broat at tip, ant strongly nafo rowed behind the thbercles, apex of second and the thid and following segments more or less fermginous. Length . 30 inch.

Heb. Califormia (II. Edwards).
Ctenistes californicus, n. sp.
§.-black, clothed with a short fime pale pubescence; face, clypens, mandibles, pappi, lower part of cheeks, scape iencath, sides of collar. tegulae, spot before, another beneath, spot on anterior margin of plenra, tip of scutellum. lateral apical margin. post-scutellum, four anterior coxa and the trochanters, and apical margin of second and following segments of abdomen, all white; flagellum luteous beneath; broad stripe on each side of mesothorax. scutellum, and plenra fermginons; wings lyaline, irifescent. areolet present ; legs fulrons. tips of posterior femora. Heir tibia and tarsi black; claws pectinate; abdomen subclavate, sessile, the white bands broader on apical segments. Length .22 inch.

Hab. Califormia (I. Edwards). A handsomely marked species. Exochus brunnipes, n. sp.
©.-Small, black, smooth, and polished, impunctured; :antenne brown ; metathorax with conical central area; tegule pale brownish; wings hyaine, areolet present; legs short, rohust, brownishfulvons, femora very much swollen, coxte, trochanters and femora beneath black. posterior tibie and tarsi fuseous. paler at base; abdomen above perfectly smooth, first segment with plain uppei


Mab. Nevada (Putnam).
Bassus maculifrons, Cresson (Proc. Ent. Soc., Phila., iv. p. 2i2).
P.-Black; sides of face, spot on middle, elypens, mandihles hooked-marked on each side of mesothorax, broad stripe on scutellum, post-scutellum, tegnlæ, spot before, another beneath, and transverse spot on each side at tip of second and foliowing segments white; wings hyaline, iridescent, areolet wanting; legs fulvous, posterior tarsi black; ablomen shining, the first and base of second segments roughly sculptured and opaque. no transversely impressed lines. Length . 34 inch.
.-All of head beneath antenne, anterior orbits, lower part of cheeks, scape bencath, anterior margin of plema transverse line
on each side, and four anterior coxa and trochanters, white or yellowish-white ; otherwise marked as in ㅇ, except that the mark before tegulre is large and cunciform, and the lateral spots on abdomen are sometimes comected by a narrow line on apical margin of the segments. Length . 27 inch.

Hab. California (Behrens. $\mathcal{F}$; H. Edwards, $\widehat{\delta}$ ). This pretty species occurs also in Colorado.

## Bassus cinctulus, n. sp.

\} $9 .-$ Black; face, anterior orhits. lower part of checks, clypeus, mandihles except tips, scape beneath, two longitudinal stripes on mesothorax, the lateral margin before tegulae, broal stripe on scutellum. postscutellum, tegula, spot before, short line beneath, anterior margin of plenra, trifurcate mark beneath, sutural line between pleura and metathorax, narrow line on tip of first segment of abdomen not reaching the side, rather broad band at tip of second, third, and fourth segments, sud spot on each side at base of fourth segment, all white; wings hyaline, arcolet wanting; legs fulvous, four anterior coxe tips of posterior pair, all the trochanters, four anterior legs in front. and broad annulus on posterior tibize white; extreme base and apical third of posterior tibie black, their tarsi __- ; base of abdomen opaque. punctured, apex shining, a transverse impressed line on second and third segments. Length 22 ingh.

Hab. Califormia (H. Edwarts). Easily recognized by the two distant white stripes on mesothorax and white bands on abdomen.

Bassus decoratus, n. sp.
3.-Black; face, anterior orbits, lower parts of cheeks, clypeus, manlibles, palpi, scaje beneath, two stripes on mesothorax abbreviated behind and confluent anteriorly with broad lateral margin, sides of scutellum, postsentellum with line on each side extending to base of wings, narrow anterior margin of pleura. transrerse line on each side, sutural line between plenta and metathorax. tegulæ, spot before and another beneatl, all pate yellow; wings hyaline, areolet present; legs pale fulvous, all the coxit and trochanters white, posterior coxre black at base beneath, posterior tarsi black; abdomen shining, with first and base of second segments rongh and dull, no transverse impressed lines; apical third of second segment, the third and apical half of fouth fulvous; a yellowish band at base of third segment interrupted
merlially, hasal margin of fourth segment narmoly pale jrillow, hroadly margined hehind with black. Length . 23 inch.

Hab. Califormia (HI. Edwards)

## Bassus pacificus, n. ep.

3 of.-black; spot on middle of face, clypens, mandibles, palpi, broad lateral margin of mesothoma hooked in front, tegula, spot before and one beneath, pale yellowish; wings hyaline, iridescent, areolet wanting ; four anterior conat execht hase, their trochanters and tips of posterior coxa white, remander of eoxa hack, femon: tibiex, and four anterior tarsi fulvous, posterior tarsi رlackish; abdomen of subeompressed at tip and shining, no transverse innpressed lines, first and second segments roughty seuptured, apex of scemed, the thind, and more or less of fomrth segments ferrnginous. Length , 23-. 25 inch.

Hab. California, ¢: Vancourer's Island, ô (II. Edwards).
Metopius Edwardsii, n. sp.
\}.-Short, robust, black. op:aque, rouglily sculptured; face, anterior orbits, labrum, palpi, scape beneath, upper margin of prothorax, narrow apical margin of scutellum, spot on cach side of metathorax, spot at tip of four anterior coxie, all the trochanters, four anterior femora in front, base and apex of posterior pair, all the tibite, four anterior tarsi, and base of posterior pair, first abdominal segmentexcept base, spot on each side of second seg. ment at tip and apical margin of remaining segments broader on third and fourth, all yellowish-white ; thonax closely and strongly punctured; wings subhyaline, tinged with fuscons especially along costa ; posterior femora swollen ; first segment pyramidal in profile and bituleceulate on disk, second and following segments coarsely longitudinally rugose, much more rongh on second and third. Length . 50 inch.

Hab. Washington Territory (Ilenry Edwards).
Coleocentrus occidentalis, $n$. sp.
¢.-Black; scape beneath and palpi pale; tegulæ fulvous; wings yellow-hyaline, with a violaceous reflection, stigma pale brown with yellow spot at base, nervures blackish; legs bromish fulvous, anterior pair in front and intermediate tibie in front and tarsi yellow, cosae dark, black at base ; abdomen dark bromnishfulvons, first segment except tip and the two or three apical seg-
ments above, black; ovipositor as long as borly. Length . 85 inch.

Hab. Tancourer's Island (II. Edwards).

## Ephialtes thoracicus, n. sp.

9.- Black; tip of clypens, mandibles, and scape beneath, brown; face with short pale pubescence, clypens with long pale hairs ; palpi whitish; mesothorax, scutellum, pleura, and flanks of metathorax ferruginous ; middle lohe of mesothorax gibbous, rery prominent. smooth; metathorax finely rugulose, clothed with short pale pubescence; lower margin of prothorax and tegulie white; wings hyaline, iridescent, areolet small, triangular. subpetiolated; legs very slender, the anterior pair entirely, middle trochanters, femora, and tibia, pale yellow, middle coxr, honeyyellow, pale beneath, their tarsi blackish, posterior coxæ, trochanters beneath and femora bright ferruginons, their trochanters above, tibie and tarsi black: ahdomen long, narmow, hack, immaculate, finely sculptured; ovipositor as long as the body. Length . 50 inch.

Hab. Tancouver's Island (II. Edwards).
Pimpla Behrensii, n. sp.
\} 9 . - Black ; palpi. tegule and spot in front white; mesothoras, scutellum, and pleura shining. the former finely and sparsely punctured; wings hyaline, uridescent ; legs fulvous, anterior pair pale in front, coxæ black, middle tibie with whitish amnulus; posterior tibise black, with broad white amulus towards base. their tarsi hlack more or less white at base of all the joints ; abrlomen strongly punctured and finely puhescent, apical margin of the segments marrowly pale or ferruginous, sides of the segments with ferruginous spot, or more or less broadly margined with ferriginous; ovipositor of $?$ short. Length . $35-.40$ inch.
Hab. California (Behrens). A very common species.

## Lampronota gelida, n. sp.

5.-Black, clothed with short pale pubescence; face yellow, with three longitudinal black stripes, sometimes broken into spots; elypeus yellow, with basal margin or spot on each side black; mandibles except tips, and palpi, yellow; tegule and spot before and sometimes a spot on each side of mesothorax in front, yellow; metathorax densely punctured; wings hyaline, more or less finged with yellowish, tegala and basal nervures pale, areolet small,
subrhombindal. peliohated; leys fulvons, four anterion cosar more or less beneath, their trenthaters and line on their femora bencath. yollow ; four anterior cosae at hase, posterior pair, and the basal trochanters hack, pusterior tarsi blackish; abmomen slemer, ferruginous, first segment, exeept tip and sometimes the two or three apical segments, black. Jength .to inch.

IGab. Lake Lahache, British Colmmbia (Crotch).
Lampronota vivida, n. sp.
\}.-Black, clothed with a short pale pubescence; face, anterior orbits not reaching summit of eyes, clypens, mandihles except tips, palpi, seape bencath, line on anterior lateral margin of mesothorax dilated and hooked in front, tegula, spot hefore and one beneath, pale yellow; tip of scutellum pale; wings pale yellowish hyaline, areolet subrhomboidal, petiolated; legs fulvons, four anterior coxa and trochanters and their femora and tibix in front pale yellow: base of posterior cose more or less black, their: tarsi fuscous; abdomen yellowish fulvons, first segment except apical margin, black. Length . 45 inch.

Hab. Vancouver's Island (II. Edwards).
Lampronota segnis, n. sp.
\}.-Small, black; face, anterior orbits, lower part of eheeks, elypens, mandibles, palpi, seape beneath, two slender stripes on mesothorax, confluent in front with hroad lateral margin, collar. scutellum, large mark on each side of plenra, tegulæ, spot before and one beneath, and fonr anterior coxa and trochanters, all yel-lowish-white; spot on flanks of metathorax, remainder of legs, exeept 'tips of tarsi which are dusky, and apical margin of ablominal segments fulvons; wings hyaline, beantifully iridescent, areolet subtriangular, not petiolated. Length . 25 ineli.

Hab. Yancouver's lsland (H. Edwards). A rery prettily markell species.

## Lampronota hilaris, n. sp.

P.-Small, black; face and scape beneath fulrous, the orhits slightly interrupted behind summit of eyes and broad beneath, clypens and spot on mandibles white; mesothorax, scutellnm, prothorax, sides of pleura, and flanks of metathorax fulvous; two slender stripes on mesothorax, confluent in front with broad lateral margins, spot on scutellum, collar, margins of prothorax, lower margin of pleura, and tegule white; wings hyaline, areolet
small, sulppetiolated ; legs fulvous, four anterior coxe white. posterior tibia more or less, and tarsi dusky; abdomen subclavate, apical margins of segments pale fulvous. broader on terminal segments ; oripositor as long as the body. Length 25 inch.

Hab. Wilmington, California (Crotch).
Lampronota Edwardsii, n. sp.
¢.-Entirely fulvo-ferruginous; antenuæ except scape, spot beneath wings, and lower margin of metathorax black; mesothorax finely punctured; metathorax confuently punctured, with a sinuate carina near apex; wings dark yellow-hyaline. stigma and basal nervures fulvous, areolet subrhomboidal, petiolated; abclomen shining, first segment sparsely punctured; ovipositor as long as the body: Length . 50 inch.

Hab. Vancouver's Island (Henry Edwards).
Lampronota? lugubris, n. sp.
f.-Deep black, shining; head small, with flattened cheeks; antenme long and rery slender, thitd joint very long, and one-third longer than fourth; mesothorax prominently trilobate; metathorax opaque, with four ill-defined longitudinal elevated lines, the two middle ones approximate; wings smoky, nerrures and stigma black, no areolet; legs rather slender, ferruginous, cosx and trochanters black, claws simple; abdomen sessile, depressed. opaque at base, shining at tip, apical margins of third and following segments marromly dull ferruginous; ovipositor as long as the body. Length . 42 inch.

Hab. Lake Quesnel, British Columbia (Crotch).
Phytodietus obscurellus, n. sp.
f.-Dull black, clothed with a very short, pale, sericeons jubescence; spot beneath eyes, dot on each side of ocelli. short line on each side of hase of antemæ, clypeus, mandibles, palpi, lateral anterior margin of mesothorax, tegulæ, lot before and spot beneath white; middle of metathorax longitudinally rugose; wings hyaline, iridescent, stigma black; legs, including coxæ, fulvo-ferruginons, posterior tibix towards tip and their tarsi dusky ; abdomen shining, apical margin of second and third segments narrowly pale; oripositor short. Length . 30 inch.

Hab. California (H. Edwards).

Phytodiotus californicus, n. sp.
8.--Small, shining hack; dot on each stile of ocelli, clypens. mandibles exerpt tips, palpi, tegule ant line in front. white; plema beneath and lamks of metathomax filvous; metathorax smooth, with a medial longitudinal groove; wings hyaline, beantifully ibileseent. stigma pale; legs, with eoxae, pale linlous, anterior conie, fonr anterior thochanters, knees, and apieal posterior trochanter white, tips of their tibiee and the tarsi dusky; aldumen shining, apical margin of segments five and six more or less white; ovipositor about half the length of abolomen. Length .2l incll.

Hah. Califormia (lBehrens).
Xorides occidentalis, n. sp.
Q.-Black; anterior orbits not reaching summit of eyes, dot on mandihles, palpi, line on each side of collar hefore anterior coxe, tegnle and spot beneath posterior wings white; scape beneath reddish; midule of mesothorax depressed and transversely wrinkled; metathorax finely transversely sealptured above; wings hyaline, nervores and stigma black; legs, with eoxæ, fulvo-fermginons, line on midulle tibiæ, their tarsi. tips of posterior femora, and their tibire and tarsi entirely black ; aldomen hack, immaculate; ovipositor abont as long as the body. Length .50-.70 inch. Hab. Vanconver's Ishand (H. Edwarls).
Poemeria insularis, n. sp.
ㅇ.-Black; anterior orbits, broad upper margin of prothorax. tegule and spot bencath. white; cheeks brown; mesothorax strongly trilobate, the anterior lobe prominent, conrex and sparsely punctured, 1 wo short pale lines on disk between the wings ; apex of scutellum and apex of metathorax dull fulvons; metathorax strongly areolated; wings hyaline; legs, with coxte, finlyons. line on outer side of four anterior coxe white, posterior femora, tibie and tarsi black; abdomen opatue, middle of third and following segments narrowly white at tip, first and base of second segments finely scabrons; ovipositor as long as the body. Length . 55 inch.

Hab. Tancouver's Island (II. Edwards).
Xylonomus californicus, n. sp.
ㅇ.-Uniformly ferroginous; flagellm, except narrow white amulus beyoud milllle, and sutures of thoras black; sometimes
there is a narrow stripe on anterior lobe of mesothorax, and the sutures between side lobes are black; wings hyaline, stigma black with whitish spot at base ; ovipositor longer than body. Length .75-. 85 inch.

Hab. California (H. Edwards). Easily distinguished from all the other known species of this genus by the uniform ferruginous color of the body.
Echthrus? maurus, n. sp.
¢.-Rohust, black, immaculate; head large, broad, buccate, shining ; antennæ with short robust joints, the third much longer than fourth; mesothorax and scutellum shinang metathorax opaque ; wings smoky, areolet 5 -angular, stigma black; legs sub robust, tips of four anterior femora and all the thitie pale, anterior tibiæ not twisted nor inflated, claws simple; abdomen subfusiform, subsessile, first segment rapidly narrowed to base, a deep elongate puncture on apical middle, base of second segment densely and finely sculptured. opaque, remainder of abdomen shining ; oripositor longer than abdomen. Length . 50 inch.

Hab. Tictoria, Vancouver's Island (Crotch).

